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Compatibility and commutativity in non-two-phase locking protocols

C Mohan, D Fussell, A Silberschatz - Proceedings of the 1st ACM SIGACT-SIGMOD symposium ..., 1982 - portal.acm.org

... number of non-two phase locking protocols [5, 6, 11, 12, 141 ... Figure 21: Lock

Compatibility Matrix COMP ... the results produced on an item by two transactions, one ...

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A multi-version concurrency scheme with no rollbacks

A Silberschatz - Proceedings of the first ACM SIGACT-SIGOPS symposium ..., 1982 - portal.acm.org

... All previous work uses transaction **rollback** as a means ... is based upon the non-two phase Tree protocol ... Traditionally, the **compatibility** relation among the S and ...

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ReVive: cost-effective architectural support for **rollback** recovery in shared-memory ...

► colorado.edu [PDF]

M Prvulovic, Z Zhang, J Torrellas - ... Proceedings. 29th Annual International Symposium on, 2002 - ieeexplore.ieee.org

... when one processor is rolled back, it may be necessary to also **roll back** other processors. To ... **Phase 2** ... Reconstruct Lost Log **Rollback** Reconstruct Lost Data 20s ...

Cited by 95 - Related articles - BL Direct - All 30 versions

WOLF: A **rollback** algorithm for optimistic distributed simulation systems

V Madiseti, J Walrand, D Messerschmitt - Simulation Conference Proceedings, 1988 Winter, 1988 - ieeexplore.ieee.org

... standard timewarp: 1. Aggressive Cancellation, and 2. Lazy Cancellation The **rollback** mechanism consists of two phases: (A) A Restoration Phase, and (B ...

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ReVive/I/O: Efficient handling of I/O in highly-available **rollback**-recovery servers- ►ucsc.edu

[PDF]

J Nakano, P Montesinos, K Gharachorloo, J ... - High-Performance Computer Architecture, 2006. The ..., 2006 - ieeexplore.ieee.org

... **Phase 1 Phase 2 Phase 3 Phase 4** Detection Latency Self-check, Rerouting Reconstruct Lost Log **Rollback** Reconstruct Lost Data Barriers ...

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Replica control in distributed systems: as asynchronous approach- ►kfupm.edu.sa [PDF]

C Pu, A Lefi - Proceedings of the 1991 ACM SIGMOD international ..., 1991 - portal.acm.org

... executed sequentially, one at a time. Concurrency control methods that preserve SR (eg, two-phase locking) are algorithms that ...

Cited by 246 - Related articles - All 16 versions

Operating a transaction manager with a non-compliant resource manager

T Freund, RA Storey - US Patent 5,768,587, 1998 - Google Patents

... SOM) from IBM updated while **roll-back** causes all ... Object 350 contains con- **rollback**

directly or one of the participants in the **two phase** figuration parameters ...

Cited by 9 - Related articles - All 2 versions

Fault recovery mechanism for multiprocessor servers

Y Masubuchi, S Hoshina, T Shimada, H ... - FTCS, 1997 - doi.ieeecomputersociety.org

... One is that the **rollback** mechanism can only re ... 2. make the device driver state invisible to the sys ... drivers are canceled in the recovery **phase**, which prevents ...

Cited by 13 - Related articles - Bl Direct - All 6 versions

A model for concurrent checkpointing and recovery using transactions- ► cmu.edu [pdf]

PJ Leu, B Bhargava - ... Systems, 1989., 9th International Conference on, 1989 - ieeeexplore.ieee.org

... **roll- back** transaction. ... follows. Each checkpoint transaction and **rollback** transaction follows a **two-phase** locking protocol [ESWA76]. Each ...

Cited by 6 - Related articles - All 4 versions

A hierarchical approach to concurrency control for multidatabases

Y Leu, AK Elmagarmid - Databases in Parallel and Distributed Systems, 1990, 1990 - ieeeexplore.ieee.org

... so that the subtransaction orders of all global transac- tions are **compatible**. ... For example, in the **two phase** locking algo- rithm [EGLT76], locking is used to ...

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